

SMART MONITOR

MMU2-16LE Series – NEMA LCD Malfunction Management Unit

PRODUCT OVERVIEW

The MMU2-16LE Series Malfunction Management Unit is a NEMA-compliant traffic signal monitoring device designed to provide continuous intersection monitoring, advanced diagnostics, and detailed event reporting for both TS-2 and legacy TS-1 cabinet environments.

- NEMA MMU2 (TS2-2016) compliant, with backward compatibility to NEMA TS1-1989 cabinet assemblies
- Meets MUTCD requirements, including support for Flashing Yellow Arrow (FYA / PPLT) operation
- Dual high-contrast LCD displays provide continuous real-time RYG(W) intersection status and system visibility
- Menu-driven graphic LCD interface enables intuitive access to configuration, signal voltages, event logs, and system help
- Built-in Setup and Diagnostic Wizards simplify configuration and quickly identify cabinet malfunctions and faulty signals
- Non-volatile, time-stamped event and signal history logging captures detailed operational data and up to 30 seconds of pre-fault signal activity
- True RMS voltage measurement (EDI RMS-Engine) and LED-optimized monitoring (LEDguard®) improve accuracy and reduce false sensing
- Configurable for TS-2 and TS-1 Type 12 operation with SDLC, requiring no cabinet wiring changes



MMU2-16LE SERIES. Complies With The New NEMA MMU2 Standard and MUTCD Requirements. Powered by EDI

Designed, Manufactured, and Tested in the United States. ISO 9001:2015 Registered

AVAILABLE MODELS

- MMU2-16LEip – Ethernet communication
- MMU2-16LE – EIA-232 serial communication

STANDARDS & COMPLIANCE

- NEMA MMU2 (TS2-2016) compliant
- Backward compatible with NEMA TS1-1989 assemblies
- MUTCD compliant
- Supports Flashing Yellow Arrow (FYA / PPLT)



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TECHNICAL SPECIFICATIONS

Category	Specification
Standards & Compliance	NEMA MMU2 (TS2-2016) compliant Backward compatible with NEMA TS1-1989 assemblies MUTCD compliant Supports Flashing Yellow Arrow (FYA / PPLT)
User Interface & Display	Dual high-contrast LCD displays providing continuous RYG(W) intersection status Dedicated graphic LCD with menu-driven interface for configuration, status review, signal voltages, event logs, and system help
Configuration & Setup	Built-in Setup Wizard guides cabinet and intersection configuration using a structured, question-based process for accurate setup in both TS-1 and TS-2 environments
Diagnostics & Monitoring	Diagnostic Wizard automatically detects cabinet malfunctions, identifies faulty signals, and provides troubleshooting guidance Real-time SDLC communications exchange field input status, controller outputs, fault status, programming data, and time/date
Event Logging	Time-stamped, non-volatile event log records complete intersection status, AC line events, configuration changes, monitor resets, cabinet temperature, and true RMS voltage measurements
Signal History	Stores five Signal Sequence History logs, each graphically displaying up to 30 seconds of signal activity prior to a fault event
Advanced Measurement & Protection	EDI RMS-Engine with DSP co-processor delivers true RMS voltage measurements, reducing false sensing from waveform distortion, phase shift, or frequency variation LEDguard® technology enhances monitoring thresholds for LED signal heads
TS-1 Compatibility	Operates as a TS-1 Type 12 monitor with SDLC mode enabled, requiring no cabinet wiring changes
Memory & Portability	Program Card memory stores all enhanced configuration settings in non-volatile memory; transferring the card to another MMU2-16LE automatically transfers all programmed settings
Software Support	EDI ECom Windows-based software provides configuration access, real-time status monitoring, event log retrieval, diagnostics, and data archival

